

# Exhibit 13

**Barfield, Dave**

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**From:** Barfield, Dave  
**Sent:** Tuesday, October 26, 2004 1:41 PM  
**To:** Pope, David L.; Rolfs, Lee  
**Cc:** Dale Book (debook@spronkwater.com); Austin, George; Ross, Scott  
**Subject:** RRCA - Notes of the October 13-14, 2004 EC meeting

David and others,

Below are my draft notes (with input from George and Scott) of the Engineering Committee of October 13-14 which I compiled for our own record and use.

David

**Key points from our EC meeting, October 13-14****Outstanding work to final the model data sets**

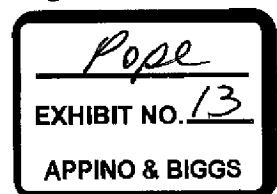
- Nebraska - Ken asked NE if they had resolved data concerns discussed last time. Paul said that a fuller review had revealed more problems. They had discovered a number of wells in the upper Republican that were not included. They will be adding 150 wells to their 01-02 data set and 85 wells to their 2003 data set. This will increase total volume pumping. They should have the data sets finalized by Oct 18. Backup data and documentation on the data sets, including these changes, is due by October 30.
- Kansas - its comparison of its final model data sets and pumping estimates based on fulfillment of the full crop demand.
- Willem will run the model when he obtains the final data from NE.

**Review of accounting procedure formulas.**

- The group had reviewed David Barfield's proposed corrections to 1) the VWS formulas for basins which have SW CU below the gages and the main stem and 2) the VWS formula for Red Willow. These corrections were approved.
- We agreed for the North Fork to leave the formulas as they are and that the footnote would remain. Nebraska will look into what is needed make the stateline gage on the Haigler Canal reliable and we will discuss it again next year. Ken noted that it is possible that irrigation under the Colorado portion of the Haigler canal would be discontinued in the future.
- Mike Thompson indicated that he had developed Table 7 from Bureau data and would provide it to each of us. Courtland Canal needs some further review.
- Courtland canal:
  - We agreed that the VWS associated with Courtland diversions would be computed by determining the CU in NE Courtland in the traditional manner and adding to this the diversions at the state line less the returns above stateline from the stateline flow.
  - The determination of the Kansas Bostwick CU was not finalized. It is complicated by: a) the fact that most of the returns are below Hardy and b) the need to account separately for Lovewell evaporation and CU below Lovewell for both Republican River waters and White Rock Creek waters. Should we compute KBID CU: a) in the manner in the AP's or b) just compute the CU above the stateline for purposes of computing KBID CU and note the diversion amount in a footnote to the table. Ann and David were going to check with the commissions.
  - George noted that KS had a spreadsheet which does the Lovewell evaporation, storage accounting, etc. as per the traditional EC procedures. Ann requested a copy.
  - NE's CU from its Courtland canal diversions is determined to have a 25% return flow.

**Accounting spreadsheet**

- We reviewed the work that had been done since the last meeting by David and Megan. It was agreed that Megan will provide her version to David, who will create the next version.



- It was agreed we would compute canal CU directly from diversions (removing the separate computation for return flows). For example, CBCU Courtland Canal Direct Supply to NE lands =  $\text{Diversion} * [1 - \% \text{BRF}]$ .
- Other revisions will include making the spreadsheet nomenclature consistent with the accounting procedures, adding input and calculations for the minor ditches in each sub-basin, removing KS/CO imports, proofing the mainstem formulas.

#### **Completion of the accounting**

- George has completed the federal reservoir evaporation computations. He will modify the spreadsheet to also compute the changes in storage.
- Each state will fill in their data in the input page and exchange it.

#### **Harlan County evaporation split.**

- We will clarify the split period is from the first day of the irrigation season when releases are made from HC for irrigation to the last day of the season when irrigation releases are made from HC. George would provide a workbook on the calculation of the split based on daily canal records provided by the Bureau. The workbook would be provided to the other states.
- At the last meeting, David noted that the AP's do not dictate a procedure for splitting the HC evaporation when there is no release for irrigation as will occur in 2004. After discussion, it was agreed that we would recommend the AP's be modified to note that in such years, the split would be based on the average split of the preceding three years when releases for irrigation occurred.

**Revised map of the basin for the AP's.** The various version of the basin maps were discussed. It was agreed to make one change to the map currently labeled Figure 3 in Colorado. That portion which is yellow, indicating mainstem, should be blue, indicating North Fork.

**Non-federal reservoir evaporation** - As the inventory is not due until the end of this year, it was agreed that we will not include these terms in the 2003 accounting but we will include them in our 2004 computations.

#### **Assignments made at the meeting:**

- Accounting spreadsheet - Megan will provide her version to David, who will create the next version. Revisions are noted above.
- NE will provide their final model data sets to the other states by Oct 18.
- The states will provide each other with their accounting spreadsheet input by Oct 22.
- NE will provide its updating pumping data documentation and backup data by October 30.
- Willem will complete the final 2001-3 model when NE provides their final data.
- George will provide the Harlan County Evaporation Split with the Bureau's data, the Lovewell Operations split, and the Reservoir Change in Storage workbooks to the states.

#### **Agenda for the Commissions meeting:**

1. Adopt the Rules and Regulations for the RRCA (Pete Ampe has already finished a draft)
2. Formally adopt the changes to the RRCA Ground Water Model (they have already given preliminary approval to the change in stream package, year-by-year running of the changes, revised preprocessors for KS and CO, etc. - this will be only an official acceptance). David suggested Willem put this on his web site for our review (if not already done) and after we all have reviewed it, he should burn it on DVD's with a date and version number that could be cited in the formal adoption by the RRCA.
3. Acceptance of a slightly modified/corrected map of the sub-basins
4. Acceptance of the Accounting Procedures revisions and final accounting numbers for 2003. The updates to the AP will include those approved by the RRCA this summer and our proposed additional changes (revised formulas; HC evap split when no deliveries). All the changes should be incorporated into one document, with both a redline and clean version provide to the commissioners. Each EC member should review these changes with his/her commissioner before the meeting.

**Assignments that will be completed after the January meeting and prior to the annual meeting**

- Review of model documentation that Willem and the states have developed
- 1995-2002 accountings
- Common recharge values by system type.